Katie M. Brown
Counsel

Duke Energy
40 W. Broad Street
Suite 690
Greenville, SC 29601

o: 864.370.5296
f: 864.370.5183
katie.brown2@duke-energy.com

December 30, 2019

VIA ELECTRONIC FILING

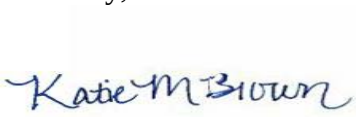
The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

RE: Duke Energy Progress, LLC- Monthly Fuel Report
Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of November 2019.

Sincerely,



Katie M. Brown

Enclosures

cc: Service List

Duke Energy Progress
Summary of Monthly Fuel Report

Schedule 1

Line No.	Item		November 2019
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$	125,840,176
	MWH sales:		
2	Total System Sales		4,918,780
3	Less intersystem sales		517,448
4	Total sales less intersystem sales		4,401,332
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)		2.8591
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)		2.4885
	Generation Mix (MWH):		
	Fossil (By Primary Fuel Type):		
7	Coal		668,942
8	Oil		11,486
9	Natural Gas - Combustion Turbine		331,394
10	Natural Gas - Combined Cycle		1,488,777
11	Biogas		385
12	Total Fossil		2,500,984
13	Nuclear		2,201,120
14	Hydro - Conventional		34,020
15	Solar Distributed Generation		16,916
16	Total MWH generation		4,753,040

Note: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description		November 2019
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	$	22,978,808
0501310 fuel oil consumed - steam		508,998
Total Steam Generation - Account 501		23,487,806
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		13,785,141
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		11,894,700
0547000 natural gas capacity - Combustion Turbine		1,970,945
0547000 natural gas consumed - Combined Cycle		36,298,679
0547000 natural gas capacity - Combined Cycle		12,212,721
0547106 biogas consumed - Combined Cycle		19,098
0547200 fuel oil consumed		1,720,920
Total Other Generation - Account 547		64,117,066
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		31,315,652
Fuel and fuel-related component of DERP purchases		26,234
PURPA purchased power capacity		4,590,651
DERP purchased power capacity		10,649
Total Purchased Power and Net Interchange - Account 555		35,943,186
Less:		
Fuel and fuel-related costs recovered through intersystem sales		12,617,484
Solar Integration Charge		125
Total Fuel Credits - Accounts 447/456		12,617,608
Total Costs Included in Base Fuel Component	$	124,715,594
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	1,298
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		1,211,484
Emission Allowance Gains		-
Less reagents expense recovered through intersystem sales - Account 447		59,223
Less emissions expense recovered through intersystem sales - Account 447		28,976
Total Costs Included in Environmental Component		1,124,582
Fuel and Fuel-related Costs excluding DERP incremental costs	$	125,840,176
DERP Incremental Costs		209,056
Total Fuel and Fuel-related Costs	$	126,049,232

Notes:
Detail amounts may not add to totals shown due to rounding.
DERP details are presented on Page 2.

Description		November 2019
DERP Avoided Costs (Total Capacity and Energy)		
Purchased Power Agreements	$	3,248
Shared Solar Program		239
Total DERP Avoided Costs		3,487
DERP Incremental Costs		
Purchased Power Agreements		2,908
DERP NEM Incentive		81,047
Solar Rebate Program - Amortization		46,382
Solar Rebate Program - Carrying Costs		40,645
Shared Solar Program		3,329
NEM Avoided Capacity Costs		2,521
NEM Meter Costs		9,189
General and Administrative Expenses		23,020
Interest on under-collection due to cap		16
Total DERP Incremental Costs	$	209,056

Notes:

Detail amounts may not add to totals shown due to rounding.

All amounts represent SC retail.

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

NOVEMBER 2019

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
DE Carolinas - Reliability	$ 928,680	-	13,320	$ 928,680	-
Broad River Energy, LLC.	4,600,309	$ 942,044	78,799	3,658,265	-
City of Fayetteville	539,059	351,000	2,265	188,059	-
Haywood EMC	28,300	28,300	-	-	-
NCEMC	2,354,214	1,650,821	15,421	703,393	-
PJM Interconnection, LLC.	(134)	-	-	(134)	-
Southern Company Services	3,732,459	917,280	105,546	2,815,179	-
DE Carolinas - Native Load Transfer	2,705,464	-	73,031	2,702,722	$ 2,742
DE Carolinas - Native Load Transfer Benefit	474,176	-	-	474,176	-
Energy Imbalance	5,470		171	4,947	523
Generation Imbalance	188		32	115	73
	$ 15,368,185	**$ 3,889,445**	**288,585**	**$ 11,475,402**	**$ 3,338**
Act 236 PURPA Purchases					
Renewable Energy	$ 14,575,923	-	219,215	$ 14,575,923	-
DERP Qualifying Facilities	36,883	-	657	36,883	-
Other Qualifying Facilities	9,854,978	-	165,319	9,854,978	-
	$ 24,467,784	**-**	**385,191**	**$ 24,467,784**	**-**
Total Purchased Power	**$ 39,835,969**	**$ 3,889,445**	**673,776**	**$ 35,943,186**	**$ 3,338**

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

NOVEMBER 2019

	Total	Capacity	Non-capacity		
Sales	$	$	mWh	Fuel $	Non-fuel $
Market Based:					
NCEMC Purchase Power Agreement	$ 897,782	$ 652,500	7,036	$ 274,282	$ (29,000)
PJM Interconnection, LLC.	83,786	-	3,150	82,397	1,389
Other:					
DE Carolinas - Native Load Transfer Benefit	$ 977,946	-	-	$ 977,946	-
DE Carolinas - Native Load Transfer	11,890,190	-	506,637	11,352,999	$ 537,191
Generation Imbalance	22,046	-	625	18,060	3,986
Total Intersystem Sales	**$ 13,871,750**	**$ 652,500**	**517,448**	**$ 12,705,684**	**$ 513,566**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
November 2019

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,401,332,110
2	DERP Net Metered kWh generation	Input					2,172,246
3	Adjusted System kWh sales	L1 + L2					4,403,504,356
4	Actual S.C. Retail kWh sales	Input	130,095,526	21,024,882	258,796,039	6,197,897	416,114,344
5	DERP Net Metered kWh generation	Input	1,064,536	25,660	1,082,050		2,172,246
6	Adjusted S.C. Retail kWh sales	L4 + L5	131,160,062	21,050,542	259,878,089	6,197,897	418,286,590
7	Actual S.C. Demand units (kw)	L32 / 31b *100			585,800		
	Base fuel component of recovery - non-capacity						
8	Incurred System base fuel - non-capacity expense	Input					$105,904,388
9	Eliminate avoided fuel benefit of S.C. net metering	Input					$69,751
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					$105,974,139
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.407
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	$3,156,480	$506,599	$6,254,191	$149,158	$10,066,428
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	($42,484)	($4,440)	($22,827)	$0	($69,751)
14	S.C. Retail portion of incurred system expense	L12 + L13	$3,113,996	$502,159	$6,231,364	$149,158	$9,996,677
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.075	2.075	2.075	2.075	2.075
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	$2,699,335	$436,266	$5,370,018	$128,606	$8,634,225
17	DERP NEM incentive - fuel component	Input	($7,093)	($741)	($3,811)	$0	($11,645)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	$2,692,242	$435,525	$5,366,207	$128,606	$8,622,580
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	$421,754	$66,634	$865,157	$20,552	$1,374,097
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	$421,754	$66,634	$865,157	$20,552	$1,374,097
	Base fuel component of recovery - capacity						
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.831	0.537			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			99		
23	Incurred S.C. base fuel - capacity expense	Input	$1,081,095	$112,984	$580,898		$1,774,977
24a	Billed base fuel - capacity rates by class (¢/kWh) - Note 2	Input	0.692	0.522			
24b	Billed base fuel - capacity rate (¢/kW)	Input			92		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	$900,209	$109,750	$ 538,804	$0	$1,548,763
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	$180,886	$3,234	$42,094	$0	$226,214
27	Adjustment	Input					
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	$180,886	$3,234	$42,094	$0	$226,214
	Environmental component of recovery						
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.050	0.032			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			6		
30	Incurred S.C. environmental expense	Input	$64,758	$6,768	$34,796		$106,322
31a	Billed environmental rates by class (¢/kWh) - Note 3	Input	0.074	0.057			
31b	Billed environmental rate (¢/kW)	Input			10		
32	Billed S.C. environmental revenue	L31a * L4 /100	$96,866	$11,984	$ 58,580		$167,430
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	($32,108)	($5,216)	($23,784)	$0	($61,108)
34	Adjustment	Input					$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	($32,108)	($5,216)	($23,784)	$0	($61,108)
	Distributed Energy Resource Program component of recovery: avoided costs						
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.002	0.001			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.195		
37	Incurred S.C. DERP avoided cost expense	Input	$2,124	$222	$1,141		$3,487
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh) - Note 4	Input	0.003	0.003			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	$3,874	$631	$0		$4,505
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	($1,750)	($409)	$1,141	$0	($1,018)
41	Adjustment	Input					
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	($1,750)	($409)	$1,141	$0	($1,018)
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	$568,782	$64,243	$884,608	$20,552	$1,538,185

Year 2019-2020

Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$13,424,397					
March 2019 - actual	13,142,207	(113,956)	(15,296)	(148,555)	(4,383)	($282,190)
April 2019 - actual	12,482,712	(178,213)	(25,629)	(447,263)	(8,390)	(659,495)
May 2019 - actual	12,391,437	(39,695)	(9,623)	(40,702)	(1,255)	(91,275)
June 2019 - actual	11,820,549	(204,177)	(33,436)	(326,075)	(7,200)	(570,888)
July 2019 - actual	11,960,164	30,794	2,958	104,254	1,609	139,615
August 2019 - actual	12,138,158	50,982	6,141	118,902	1,969	177,994
September 2019 - actual	12,149,907	(5,068)	(2,111)	18,664	264	11,749
October 2019 - actual	11,737,925	(133,360)	(23,159)	(250,457)	(5,006)	(411,982)
November 2019 - actual	13,112,022	421,754	66,634	865,157	20,552	1,374,097
_/5 December 2019 - forecast	12,142,345	(350,470)	(43,139)	(562,593)	(13,475)	(969,677)
_/5 January 2020 - forecast	11,311,832	(338,116)	(34,710)	(447,007)	(10,680)	(830,513)
_/5 February 2020 - forecast	10,197,397	(449,048)	(47,035)	(603,928)	(14,424)	(1,114,435)
_/5 March 2020 - forecast	9,346,496	(315,215)	(38,779)	(485,292)	(11,615)	(850,901)
/5 April 2020 - forecast	7,196,986	(677,876)	(108,128)	(1,331,673)	(31,833)	(2,149,510)
/5 May 2020 - forecast	6,025,573	(331,416)	(61,776)	(760,065)	(18,156)	(1,171,413)
/5 June 2020 - forecast	$ 5,856,475	($53,326)	($8,490)	($104,793)	($2,489)	($169,098)

Year 2019-2020

Cumulative (over) / under recovery - BASE FUEL CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$574,929					
March 2019 - actual	320,452	(158,950)	9,884	(105,411)	0	($254,477)
April 2019 - actual	800,238	332,772	51,683	95,331	0	479,786
May 2019 - actual	924,824	125,236	18,384	(19,034)	0	124,586
June 2019 - actual	844,129	(99,572)	(1,971)	20,848	0	(80,695)
July 2019 - actual	1,259,813	196,610	25,312	193,762	0	415,684
August 2019 - actual	2,465,773	642,873	56,685	506,402	0	1,205,960
September 2019 - actual	2,674,275	77,548	(4,581)	135,535	0	208,502
October 2019 - actual	2,816,302	164,898	(4,727)	(18,144)	0	142,027
November 2019 - actual	3,042,516	180,886	3,234	42,094	0	226,214
/5 December 2019 - forecast	2,693,657	(243,895)	(3,619)	(101,345)	0	(348,859)
/5 January 2020 - forecast	2,153,599	(574,205)	(6,512)	40,659	0	(540,058)
_/5 February 2020 - forecast	1,631,305	(506,119)	(3,085)	(13,090)	0	(522,294)
_/5 March 2020 - forecast	1,530,157	(108,014)	14,689	(7,823)	0	(101,148)
_/5 April 2020 - forecast	1,913,824	256,657	19,529	107,481	0	383,667
_/5 May 2020 - forecast	2,267,063	350,538	12,041	(9,340)	0	353,239
_/5 June 2020 - forecast	$ 2,244,383	$66,293	($565)	($88,408)	$0	($22,680)

Year 2019-2020

Cumulative (over) / under recovery - ENVIRONMENTAL	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$199,207					
March 2019 - actual	275,991	40,490	5,702	30,592	0	$76,784
April 2019 - actual	324,903	24,694	3,770	20,448	0	48,912
May 2019 - actual	427,128	57,448	6,955	37,822	0	102,225
June 2019 - actual	515,935	46,245	6,142	36,420	0	88,807
July 2019 - actual	585,999	35,423	4,025	30,616	0	70,064
August 2019 - actual	533,582	(41,088)	(5,683)	(5,646)	0	(52,417)
September 2019 - actual	496,704	(27,209)	(4,454)	(5,215)	0	(36,878)
October 2019 - actual	392,969	(54,170)	(8,236)	(41,329)	0	(103,735)
November 2019 - actual	331,861	(32,108)	(5,216)	(23,784)	0	(61,108)
_/5 December 2019 - forecast	315,249	(12,901)	808	(4,519)	0	(16,612)
_/5 January 2020 - forecast	321,565	(22,042)	3,253	25,105	0	6,316
_/5 February 2020 - forecast	331,507	(13,629)	3,737	19,834	0	9,942
_/5 March 2020 - forecast	260,394	(47,707)	(2,388)	(21,018)	0	(71,113)
_/5 April 2020 - forecast	104,601	(91,875)	(10,585)	(53,333)	0	(155,793)
_/5 May 2020 - forecast	(27,848)	(65,502)	(9,693)	(57,254)	0	(132,449)
_/5 June 2020 - forecast	$ (100,938)	($35,263)	($4,701)	($33,126)	$0	($73,090)

Year 2019-2020

Cumulative (over) / under recovery - DERP AVOIDED COSTS	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$19,288					
March 2019 - actual	17,381	(2,803)	(12)	908	0	($1,907)
April 2019 - actual	21,608	1,112	352	2,763	0	4,227
May 2019 - actual	24,699	471	253	2,367	0	3,091
June 2019 - actual	28,250	252	306	2,993	0	3,551
July 2019 - actual	25,974	(3,344)	(290)	1,358	0	(2,276)
August 2019 - actual	21,827	(4,411)	(739)	1,003	0	(4,147)
September 2019 - actual	24,134	(329)	(311)	2,947	0	2,307
October 2019 - actual	24,317	(1,209)	(413)	1,805	0	183
November 2019 - actual	23,299	(1,750)	(409)	1,141	0	(1,018)
_/5 December 2019 - forecast	19,456	(2,767)	(373)	(703)	0	(3,843)
_/5 January 2020 - forecast	22,214	416	92	2,250	0	2,758
_/5 February 2020 - forecast	25,232	784	116	2,118	0	3,018
_/5 March 2020 - forecast	29,216	1,935	135	1,914	0	3,984
_/5 April 2020 - forecast	35,444	3,649	170	2,409	0	6,228
_/5 May 2020 - forecast	41,955	4,259	157	2,095	0	6,511
_/5 June 2020 - forecast	$ 46,183	$2,612	$51	$1,565	$0	$4,228

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
November 2019

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	$127,331	$50,402	$31,323	$209,056
45	Billed S.C. DERP incremental rates by account ($/account)	Input	1.00	2.02	99.56	
46	Billed S.C. DERP incremental revenue	Input	$131,727	$61,995	$22,849	$216,571
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	($4,396)	($11,593)	$8,474	($7,515)
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	($4,396)	($11,593)	$8,474	($7,515)

Year 2019-2020 Cumulative (over) / under recovery	Cumulative	Total
Balance ending February 2019	$6,239	
March 2019 - actual	107,362	$101,123
April 2019 - actual	(62,019)	(169,381)
May 2019 - actual	13,138	75,157
June 2019 - actual	48,966	35,828
July 2019 - actual	95,723	46,757
August 2019 - actual	82,651	(13,072)
September 2019 - actual	85,703	3,052
October 2019 - actual	73,484	(12,219)
November 2019 - actual	65,969	(7,515)
/5 December 2019 - forecast	60,936	(5,033)
/5 January 2020 - forecast	54,225	(6,711)
/5 February 2020 - forecast	50,780	(3,445)
_/5 March 2020 - forecast	72,793	22,013
_/5 April 2020 - forecast	114,434	41,641
_/5 May 2020 - forecast	158,553	44,119
_/5 June 2020 - forecast	$206,927	$48,374

Notes:
Detail amounts may not recalculate due to percentages presented as rounded.
Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of 2.090 and RECD 5% discount.
_/2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of .697 and RECD 5% discount.
_/3 Total residential billed environmental rate is a composite rate reflecting the 7/1/19 approved residential rate of .075 and RECD 5% discount.
_/4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of .003 and RECD 5% discount.
_/5 Forecast amounts based on low end of range of expected fuel rates.

Duke Energy Progress
Fuel and Fuel Related Cost Report
November 2019

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CC/CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	$3,242,115	-	$26,276,576	$156,923
Oil	-	-	-	$3,016	439,477	-	252,429	284,880
Gas - CC	-	$14,299,708	$12,342,019	-	-	$4,263,820	-	-
Gas - CT	$24	-	579,684	-	-	3,454,857	-	-
Biogas	-	-	-	-	-	-	-	-
Total	$24	$14,299,708	$12,921,703	$3,016	$3,681,592	$7,718,677	$26,529,005	$441,803
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	321.62	-	261.74	0.00
Oil	-	-	-	-	1,985.71	-	1,525.90	1,522.93
Gas - CC	-	425.48	485.59	-	-	684.85	-	-
Gas - CT	-	-	480.27	-	-	392.03	-	-
Biogas	-	-	-	-	-	-	-	-
Weighted Average	-	425.48	485.35	-	357.37	513.26	263.82	2,361.83
Cost of Fuel Burned ($)								
Coal	-	-	-	-	$3,390,801	-	$18,620,158	$967,849
Oil - CC	-	-	-	-	-	$202,851	-	-
Oil - Steam/CT	$17,776	-	-	-	58,181	116,089	177,155	273,663
Gas - CC	-	$14,299,708	$12,342,019	-	-	4,263,820	-	-
Gas - CT	24	-	579,684	-	-	3,454,857	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	$3,196,700	-	-	-	-
Total	$17,800	$14,299,708	$12,921,703	$3,196,700	$3,448,982	$8,037,617	$18,797,313	$1,241,512
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	325.82	-	331.15	326.95
Oil - CC	-	-	-	-	-	1,534.43	-	-
Oil - Steam/CT	1,589.98	-	-	-	1,558.14	1,579.23	1,465.67	1,479.58
Gas - CC	-	425.48	485.59	-	-	684.85	-	-
Gas - CT	-	-	480.27	-	-	392.03	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	55.67	-	-	-	-
Weighted Average	1,592.13	425.48	485.35	55.67	330.23	527.25	333.59	394.73
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	4.16	-	3.26	5.76
Oil - CC	-	-	-	-	-	14.05	-	-
Oil - Steam/CT	161.60	-	-	-	19.88	19.25	14.16	26.08
Gas - CC	-	3.79	3.53	-	-	6.73	-	-
Gas - CT	-	-	4.43	-	-	4.17	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	0.56	-	-	-	-
Weighted Average	-	3.79	3.56	0.56	4.21	5.42	3.29	6.96
Burned MBTU's								
Coal	-	-	-	-	1,040,684	-	5,622,827	296,026
Oil - CC	-	-	-	-	-	13,220	-	-
Oil - Steam/CT	1,118	-	-	-	3,734	7,351	12,087	18,496
Gas - CC	-	3,360,841	2,541,662	-	-	622,588	-	-
Gas - CT	-	-	120,700	-	-	881,276	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	5,741,990	-	-	-	-
Total	1,118	3,360,841	2,662,362	5,741,990	1,044,418	1,524,435	5,634,914	314,522
Net Generation (mWh)								
Coal	-	-	-	-	81,602	-	570,544	16,796
Oil - CC	-	-	-	-	-	1,444	-	-
Oil - Steam/CT	11	-	-	-	293	603	1,251	1,049
Gas - CC	-	376,934	349,495	-	-	63,340	-	-
Gas - CT	(12)	-	13,081	-	-	82,922	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	569,012	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	(1)	376,934	362,576	569,012	81,895	148,309	571,795	17,845
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	$154,541	$9,541
Limestone	-	-	-	-	$104,279	-	611,867	10,696
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	5,275	-	222,037	13,293
Urea	-	-	-	-	58,420	-	-	-
Total	-	-	-	-	$167,975	-	$988,445	$33,530

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME November 2019
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$29,675,614	$392,128,817
Oil	$12,796	-	-	-	-	$25,595	1,018,193	12,688,311
Gas - CC	-	-	-	-	$17,605,852	-	48,511,399	565,165,931
Gas - CT	-	-	$1,324,706	$11,068	8,495,310	-	13,865,649	96,380,824
Biogas	-	-	-	-	82,009	-	82,009	1,571,202
Total	$12,796	-	$1,324,706	$11,068	$26,101,162	$25,595	$93,152,864	$1,067,935,085
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	268.63	340.59
Oil	1,231.57	-	-	-	-	1,231.71	1,683.02	1,509.30
Gas - CC	-	-	-	-	379.03	-	434.30	408.09
Gas - CT	-	-	380.00	-	363.26	-	375.84	395.47
Biogas	-	-	-	-	2,927.85	-	2,927.85	2,884.47
Weighted Average	1,231.57	-	380.00	-	374.78	1,231.71	358.70	382.92
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$22,978,808	$369,214,287
Oil - CC	-	-	-	-	$149	-	203,000	314,187
Oil - Steam/CT	-	-	$1,362,439	$4,635	16,981	-	2,026,919	15,081,068
Gas - CC	-	-	-	-	17,605,852	-	48,511,399	565,165,931
Gas - CT	-	-	1,324,706	11,068	8,495,310	-	13,865,649	96,380,824
Biogas	-	-	-	-	82,009	-	82,009	1,571,202
Nuclear	$8,177,427	-	-	-	-	$2,411,018	13,785,145	178,647,183
Total	$8,177,427	-	$2,687,145	$15,703	$26,200,301	$2,411,018	$101,452,929	$1,226,374,681
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	330.18	344.66
Oil - CC	-	-	-	-	1,655.56	-	1,534.51	1,577.48
Oil - Steam/CT	-	-	1,743.97	1,723.05	1,663.17	-	1,658.70	1,496.83
Gas - CC	-	-	-	-	379.03	-	434.30	408.09
Gas - CT	-	-	380.00	-	363.26	-	375.84	395.47
Biogas	-	-	-	-	2,927.85	-	2,927.85	2,884.47
Nuclear	57.42	-	-	-	-	86.59	60.55	59.80
Weighted Average	57.42	-	629.71	5,837.55	374.97	86.59	226.84	215.23
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.44	3.79
Oil - CC	-	-	-	-	14.90	-	14.05	15.60
Oil - Steam/CT	-	-	19.27	-	18.15	-	20.19	19.19
Gas - CC	-	-	-	-	2.52	-	3.26	2.98
Gas - CT	-	-	4.22	-	4.16	-	4.18	4.08
Biogas	-	-	-	-	21.31	-	21.31	19.94
Nuclear	0.60	-	-	-	-	0.90	0.63	0.62
Weighted Average	0.60	-	6.98	-	2.90	0.90	2.13	2.02
Burned MBTU's								
Coal	-	-	-	-	-	-	6,959,537	107,125,268
Oil - CC	-	-	-	-	9	-	13,229	19,917
Oil - Steam/CT	-	-	78,123	269	1,021	-	122,199	1,007,532
Gas - CC	-	-	-	-	4,644,924	-	11,170,015	138,492,172
Gas - CT	-	-	348,603	-	2,338,637	-	3,689,216	24,371,111
Biogas	-	-	-	-	2,801	-	2,801	54,471
Nuclear	14,240,734	-	-	-	-	2,784,435	22,767,159	298,719,898
Total	14,240,734	-	426,726	269	6,987,392	2,784,435	44,724,156	569,790,369
Net Generation (mWh)								
Coal	-	-	-	-	-	-	668,942	9,739,188
Oil - CC	-	-	-	-	1	-	1,445	2,014
Oil - Steam/CT	-	(102)	7,070	(227)	94	-	10,042	78,580
Gas - CC	-	-	-	-	699,007	-	1,488,777	18,940,979
Gas - CT	-	-	31,409	(161)	204,155	-	331,394	2,360,436
Biogas	-	-	-	-	385	-	385	7,881
Nuclear	1,363,766	-	-	-	-	268,342	2,201,120	28,629,035
Hydro (Total System)							34,020	687,660
Solar (Total System)							16,916	249,527
Total	1,363,766	(102)	38,479	(388)	903,642	268,342	4,753,040	60,695,301
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	$21,535	-	$185,618	$2,242,708
Limestone	-	-	-	-	-	-	726,842	11,292,249
Re-emission Chemical	-	-	-	-	-	-	-	0
Sorbents	-	-	-	-	-	-	240,605	3,567,319
Urea	-	-	-	-	-	-	58,420	1,052,918
Total	-	-	-	-	$21,535	-	$1,211,484	$18,155,194

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2019

Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	14,039
Tons received during period	-	-	-	-	41,028
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	42,121
Ending balance	-	-	-	-	12,946
MBTUs per ton burned	-	-	-	-	24.71
Cost of ending inventory ($/ton)	-	-	-	-	80.50
Oil Data:					
Beginning balance	632,729	-	2,620,038	78,040	2,981,636
Gallons received during period	-	-	-	-	160,374
Miscellaneous use and adjustments	-	-	-	-	(3,327)
Gallons burned during period	7,984	-	-	-	177,484
Ending balance	624,745	-	2,620,038	78,040	2,961,199
Cost of ending inventory ($/gal)	2.23	-	2.80	2.35	2.14
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	3,248,273	2,573,091	-	1,454,754
MCF burned during period	-	3,248,273	2,573,091	-	1,454,754
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	7,186
Tons received during period	-	-	-	-	642
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	1,652
Ending balance	-	-	-	-	6,176
Cost of ending inventory ($/ton)	-	-	-	-	62.17

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2019

Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	819,467	518,092	-	-	-
Tons received during period	395,274	-	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	223,625	11,523	-	-	-
Ending balance	991,116	506,569	-	-	-
MBTUs per ton burned	25.14	25.69	-	-	-
Cost of ending inventory ($/ton)	83.16	83.99	-	-	-
Oil Data:					
Beginning balance	396,784	294,926	152,371	771,806	11,922,635
Gallons received during period	119,874	135,548	7,527	-	-
Miscellaneous use and adjustments	(14,945)	(1,118)	-	-	-
Gallons burned during period	87,748	133,948	781	-	567,533
Ending balance	413,965	295,408	159,117	771,806	11,355,102
Cost of ending inventory ($/gal)	2.02	2.04	2.35	2.37	2.40
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	336,460
MCF burned during period	-	-	-	-	336,460
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	81,331	23,354	-	-	-
Tons received during period	30,330	6,230	-	-	-
Inventory adjustments	-	-	-	-	-
Tons consumed during period	13,771	201	-	-	-
Ending balance	97,890	29,383	-	-	-
Cost of ending inventory ($/ton)	42.20	53.37	-	-	-

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2019

Schedule 6
Page 3 of 3

Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME November 2019
Coal Data:					
Beginning balance	-	-	-	1,351,598	1,233,293
Tons received during period	-	-	-	436,302	4,564,182
Inventory adjustments	-	-	-	-	(22,721)
Tons burned during period	-	-	-	277,269	4,264,123
Ending balance	-	-	-	1,510,631	1,510,631
MBTUs per ton burned	-	-	-	25.10	25.12
Cost of ending inventory ($/ton)	-	-	-	83.41	83.41
Oil Data:					
Beginning balance	10,204,040	8,106,704	271,937	38,433,646	39,167,349
Gallons received during period	-	-	15,056	438,379	6,091,825
Miscellaneous use and adjustments	-	-	-	(19,390)	(204,344)
Gallons burned during period	1,937	7,359	-	984,774	7,186,969
Ending balance	10,202,103	8,099,345	286,993	37,867,861	37,867,861
Cost of ending inventory ($/gal)	2.39	2.33	2.35	2.38	2.38
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	6,750,124	-	14,362,702	158,029,434
MCF burned during period	-	6,750,124	-	14,362,702	158,029,434
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	2,707	-	2,707	52,901
MCF burned during period	-	2,707	-	2,707	52,901
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	111,871	115,091
Tons received during period	-	-	-	37,202	270,753
Inventory adjustments	-	-	-	-	(2,124)
Tons consumed during period	-	-	-	15,624	250,271
Ending balance	-	-	-	133,449	133,449
Cost of ending inventory ($/ton)	-	-	-	45.58	45.58

Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

NOVEMBER 2019

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	-	-
	CONTRACT	41,028	$ 2,917,809	$ 71.12
	FIXED TRANSPORTATION/ADJUSTMENTS	-	324,306	-
	TOTAL	41,028	3,242,115	79.02
MAYO	SPOT	-	-	-
	CONTRACT	-	17,812	-
	FIXED TRANSPORTATION/ADJUSTMENTS	-	139,111	-
	TOTAL	-	156,923	-
ROXBORO	SPOT	12,789	892,055	69.75
	CONTRACT	382,485	24,730,318	64.66
	FIXED TRANSPORTATION/ADJUSTMENTS	-	654,203	-
	TOTAL	395,274	26,276,576	66.48
ALL PLANTS	SPOT	12,789	892,055	69.75
	CONTRACT	423,513	27,665,939	65.32
	FIXED TRANSPORTATION/ADJUSTMENTS	-	1,117,620	-
	TOTAL	436,302	$ 29,675,614	$ 68.02

Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

NOVEMBER 2019

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	7.78	10.42	12,285	1.65
MAYO	-	-	-	-
ROXBORO	6.11	9.30	12,699	1.95

DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
NOVEMBER 2019

	ASHEVILLE	BRUNSWICK	HARRIS	MAYO	ROXBORO
VENDOR	Spartanburg Tank Farm	Hightowers Petroleum Co.	Hightowers Petroleum Co.	Greensboro Tank Farm	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0	0	0
GALLONS RECEIVED	160,374	7,527	15,056	135,548	119,874
TOTAL DELIVERED COST	$ 439,477	$ 12,796	$ 25,595	$ 284,880	$ 252,429
DELIVERED COST/GALLON	$ 2.74	$ 1.70	$ 1.70	$ 2.10	$ 2.11
BTU/GALLON	138,000	138,000	138,000	138,000	138,000

Notes:
Pricing adjustment of $3,016 for the Robinson station is excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2018 - November, 2019
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	7,725,610	938	94.02	93.60
Brunswick 2	6,933,506	932	84.92	85.89
Harris 1	7,607,885	961	90.35	89.43
Robinson 2	6,362,034	741	98.01	93.23

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2018 through November, 2019
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,359,913	225	69.00	79.18
Lee Energy Complex	1B	1,345,885	227	67.68	76.98
Lee Energy Complex	1C	1,356,667	228	67.93	76.61
Lee Energy Complex	ST1	2,582,593	379	77.79	83.56
Lee Energy Complex	Block Total	6,645,058	1,059	71.63	79.72
Richmond County CC	7	1,208,472	194	71.27	79.90
Richmond County CC	8	1,225,816	194	72.29	80.98
Richmond County CC	ST4	1,378,818	181	86.77	88.54
Richmond County CC	9	1,185,971	216	62.68	70.80
Richmond County CC	10	1,203,487	216	63.60	71.36
Richmond County CC	ST5	1,589,379	248	73.16	76.78
Richmond County CC	Block Total	7,791,943	1,249	71.24	77.63
Sutton Energy Complex	1A	1,393,082	224	70.99	80.83
Sutton Energy Complex	1B	1,390,543	224	70.87	79.92
Sutton Energy Complex	ST1	1,630,679	271	68.69	86.46
Sutton Energy Complex	Block Total	4,414,304	719	70.09	82.67

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2018 through November, 2019

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,605,803	746	24.57	81.30
Roxboro 2	1,533,896	673	26.02	80.58
Roxboro 3	2,332,594	698	38.15	77.66
Roxboro 4	2,609,843	711	41.90	80.59

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2018 through November, 2019
Other Cycling Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville 1	738,450	192	43.91	97.54
Asheville 2	436,619	192	25.96	94.80
Roxboro 1	533,867	380	16.04	71.14

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2018 through November, 2019
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	271,039	370	88.78
Blewett CT	-465	68	97.88
Darlington CT	24,166	770	92.56
Richmond County CT	1,754,049	934	89.20
Sutton Fast Start CT	192,337	98	91.52
Wayne County CT	146,214	963	94.75
Weatherspoon CT	-208	164	85.49

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2018 through November, 2019
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	-421	27.0	0.00
Marshall	-284	4.0	2.58
Tillery	248,260	84.0	85.36
Walters	440,105	113.0	69.20

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2018 through November, 2019
Pre-commercial Combined Cycle Units

Note: The Power Plant Performance Data reports are limited to capturing data beginning the first full month a station is in commercial operation. During the months specified below, Asheville CC produced pre-commercial generation.

Production Month	Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
August 2019	Asheville	5	14,438	n/a	n/a	n/a
September 2019	Asheville	5	972	n/a	n/a	n/a
September 2019	Asheville	7	10,823	n/a	n/a	n/a
October 2019	Asheville	5	6,054	n/a	n/a	n/a
October 2019	Asheville	7	2,498	n/a	n/a	n/a
November 2019	Asheville	5	35,439	n/a	n/a	n/a
November 2019	Asheville	ST6	8,911	n/a	n/a	n/a
November 2019	Asheville	7	20,337	n/a	n/a	n/a
November 2019	Asheville	ST8	97	n/a	n/a	n/a